

Grassed Waterway

412
Acre

Appendix 1c - Planting rates for drill or broadcast seeding and sprigging in Texas, Zone 2. MLRA's 83A and 83B

Name	Variety	Seeding rates are pounds pure live seed (PLS) per acre 3/, 4/	Native (N) or Introduced (I)	Season of growth	Adaptation by Major Land Resource Areas										Seeding Guidance	Adapted Plants by Soil Groups 6/				Comments
					Northern Rio Grande Plain 83A	Western Rio Grande Plain 83B										Coarse	Moderately Coarse	Medium	Moderately Fine	
														Maximum Seeding Dates 5/						
PERENNIAL GRASSES 1/, 2/																				
Bermudagrass	Cheyenne	10.0	I	W										2/1 - 5/15 9/	X	X	X	X		
Bermudagrass: hulled	common	2.3	I	W	X	X								2/1 - 5/15 9/	X	X	X	X		
Bermudagrass: unhulled	common	3.0	I	W	X	X								2/1 - 5/15 9/	X	X	X	X		
Bermudagrass: Seeded	Giant	3.0	I	W	X	X								2/1 - 5/15 9/	X	X	X	X		
Bermudagrass: Sprigged	Alicia, Brazos, Callie, Coastal, Coast-Cross I, Jiggs, Guymon, Grazer, Midland, Tifton 44, Tifton 68, Tifton 78, Tifton 85, World Feeder	12 bu 7/	I	W	X	X								2/1 - 5/15 9/	X	X	X	X		Cover depth is one to three inches. Callie and Coast-Cross 1 susceptible to freeze damage. Winter hardiness of Jiggs and Tifton 85 not fully determined.
Bermudagrass: tops	Alicia, Jiggs, Tifton 85	7 bales 7/	I	W	X	X								5/15 -6/15	X	X	X	X		Tops must be at least 18" long with 6 nodes. Adequate moisture at planting is essential. Cover depth is one to three inches.
Bluestem: cane, silver		1.2	N	W	X	X								2/1-5/15 9/		X	X	X	X	
Bluestem: little	Cimmaron, Pastura, native mix	3.4	N	W	X	X								2/1 - 5/15 9/	X	X	X	X		
Bluestem, yellow	Angleton, Australian, Caucasian, Gordo, King Ranch, Kleberg, Medio, Pretoria-90, T-587, WW-B Dahl	1.2	I	W	X	X								2/1-5/15 9/		X	X	X	X	
Bluestem, yellow	Ganada, Plains, WW Ironmaster, WW-Spar	1.8	I	W	X	X								2/1-5/15 9/		X	X	X	X	

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					Northern Rio Grande Plain 83A	Western Rio Grande Plain 83B												Coarse	Moderately Coarse		Medium	Moderately Fine	Fine
PERENNIAL GRASSES 1/, 2/ (Continued)																							
Bristlegrass: plains 8/		3.0	N	W	X	X									2/1-5/15 9/		X	X	X	X			
Buffalograss burrs, treated		8.0	N	W	X	X									2/1-5/15 9/			X	X	X			
Buffalograss, dehulled		3.0	N	W	X	X									2/1- /15 9/			X	X	X			
Buffelgrass burs	common, Nueces, Llano	2.0	I	W	X	X									2/1- /15 9/		X	X	X				
Buffelgrass, grain	common, Nueces, Llano	1.0	I	W	X	X									2/1-5/15 9/		X	X	X				
Bristlegrass: plains 8/		3.0	N	W	X	X									2/1-5/15 9/			X	X	X			
Dropseed: sand		1.0	N	W	X	X									2/1 - 5/15 9/	X	X	X	X				
Dropseed: tall		1.0	N	W	X	X									2/1 - 5/15 9/	X	X	X	X				
Eastern gamagrass	Iuka, Iuka IV, Pete	15.0	N	W	X										2/1-5/15 9/		X	X	X		Cover depth is 1/2 to 3/4 inches.		
Eastern gamagrass	Jackson, local harvest	20.0	N	W	X										2/1-5/15 9/		X	X	X	X	Cover depth is 1/2 to 3/4 inches.		
False rhodesgrass		1.2	N	W	X	X									2/1- 5/15 9/			X	X	X	Two-flower trichloris		
False rhodesgrass: Multiflowered		1.2	N	W	X	X									2/1-5/15 9/		X	X	X	X	Four-flower trichloris		
Grama: sideoats	El Reno, Haskell, Niner, Uvalde	4.5	N	W	X	X									2/1 - 5/15 9/	X	X	X	X	X			
Green sprangletop		1.7	N	W	X	X									2/1 - 5/15 9/	X	X	X	X	X			
Indiangrass: yellow	Cheyenne, Lometa	4.5	N	W	X	X									2/1 - 5/15 9/	X	X	X	X	X			
Johnsongrass		10.0	I	W	X	X									2/1 - 5/15 9/	X	X	X	X	X	Cover depth is 1/4 to 1/2 inches.		
Kleingrass	Selection-75	1.5	I	W	X	X									2/1- 5/15 9/		X	X	X	X			
Kleingrass	Verde	1.7	I	W	X	X									2/1- 5/15 9/		X	X	X	X			
Lovegrass: weeping	common, Ermelo	1.5	I	W	X	X									2/1 - 5/15 9/	X	X	X					
Lovegrass: Wilman	common, Palar	1.5	I	W	X	X									2/1 - 5/15 9/	X	X	X	X				
Lovegrass: sand, sandhill	common, Mason	1.5	N	W	X										2/1 - 5/15 9/	X	X	X					

Appendix 1c - Planting rates for drill or broadcast seeding and sprigging in Texas, Zone 2. MLRA's 83A and 83B

Name	Variety	Seeding rates are pounds pure live seed (PLS) per acre 3/4/	Native (N) or Introduced (I)	Season of growth	Adaptation by Major Land Resource Areas										Seeding Guidance	Adapted Plants by Soil Groups 6/									
					Northern Rio Grande Plain 83A		Western Rio Grande Plain 83B									Maximum Seeding Dates 5/	Coarse	Moderately Coarse	Medium	Moderately Fine	Fine				
PERENNIAL GRASSES 1/, 2/ (Continued)																									
Panicum: blue		2.0	I	W	X	X									2/1-5/15 9/		X	X	X	X					
Pappasgrass: pink, whiplash		2.5	N	W	X	X									2/1-5/15 9/		X	X	X						
Rhodesgrass	Bell	1.0	I	W	X										2/1-5/15 9/	X	X								
Sacaton: alkali	common, Salado, Saltalk	1.0	N	W	X	X									2/1-5/15 9/			X	X	X	Adapted to saline sites.				
Sacaton: big		1.0	N	W	X	X									2/1-5/15 9/			X	X	X					
Sorghum alnum		12.0	I	W	X	X									2/1-5/15 9/		X	X	X	X	CS Weak perennial, Cover depth is 1/4 - 1/2"				
Switchgrass	Alamo	2.0	N	W	X	X									2/1-5/15 9/	X	X	X	X	X					
Switchgrass	local harvest	3.5	N	W	X	X									2/1-5/15 9/	X	X	X	X	X					
Vine-mesquite		6.0	N	W	X	X									2/1-5/15 9/		X	X	X	X					
Wildrye: canada		10.0	N	C	X	X									9/1 - 11/1		X	X	X	X	Cover depth is 1/4 to 1/2 inches.				
Wildrye: virginia		10.0	N	C	X	X									9/1 - 11/1		X	X	X	X	Cover depth is 1/4 to 1/2 inches.				

Adapted to saline sites.

CS Weak perennial, Cover depth is 1/4 - 1/2"

Cover depth is 1/4 to 1/2 inches.

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Appendix 1c - Planting rates for drill or broadcast seeding and sprigging in Texas, Zone 2. MLRA's 83A and 83B

Name	Variety	Seeding rates are pounds pure live seed (PLS) per acre 3/, 4/	Native (N) or Introduced (I)	Season of growth	Adaptation by Major Land Resource Areas										Seeding Guidance	Adapted Plants by Soil Groups 6/								
					Northern Rio Grande Plain 83A	Western Rio Grande Plain 83B										Maximum Seeding Dates 5/	Coarse	Moderately Coarse	Medium	Moderately Fine		Fine		
PERENNIAL FORBS, LEGUMES, SHRUBS 1/, 2/																						Comments		
Alfalfa		4.0	I	C	X	X												9/1 - 11/1	X	X	X	X		CS May be planted 2/1 - 4/1 with warm season mix
Awnless bushsunflower		2.6	N	W	X	X												2/1- 5/15 9/		X	X	X		
Engelmann daisy		15.0	N	C	X	X												9/1 - 11/1		X	X	X	X	May be planted 2/1 -4/1 with warm season mix
Fourwing saltbush		15.5	N	W	X	X												2/1-5/15 9/	X	X	X	X	X	Normal row rate is 6 lb/ac PLS
Gayfeather: dotted		10.0	N	W	X	X												2/1-5/15 9/	X	X	X	X		
Illinois bundleflower		13.6	N	W	X													2/1-5/15 9/	X	X	X	X	X	
Leucaena	L. leucocephala	7.0	I	W	X	X												2/1-5/15 9/		X	X	X		May freeze in northern part of MLRA 83.
Maximilian sunflower		3.0	N	W	X	X												2/1-5/15 9/		X	X	X	X	
Menodora: showy		8.0	N	W	X	X												2/1-5/15 9/		X	X	X		Adapted to shallow, rocky sites
Orange zexmenia		3.4	N	W	X	X												2/1-5/15 9/	X	X	X	X		
Annual Grasses 1/ 2/																								
Barley		48.0	I	C	X	X	X											9/1 - 11/1		X	X	X	X	CS
Bromegrass	Matua	30.0	I	C	X	X												9/1 - 11/1			X	X	X	Weak perennial that acts as an annual. Very high water requirement. Cover depth is 1/2 to 1.0 inches.
Forage Sorghum: grass types		10.0	I	W	X	X												3/15-8/15	X	X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Forage Sorghum: others		15.0	I	W	X	X												3/15-8/15	X	X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Grain Sorghum		15.0	I	W	X	X												3/15-8/15	X	X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Hegari		15.0	I	W	X	X												3/15-8/15		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Millet: browntop		15.0	I	W	X	X												3/15-8/15		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Millet: foxtail		15.0	I	W	X	X												3/15-8/15	X	X	X	X		CS Cover depth is 1/2 to 1.0 inches.
Millet: japanese		15.0	I	W	X	X												3/15-8/15			X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Millet: pearl		15.0	I	W	X	X												3/15-8/15		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Millet: proso		15.0	I	W	X	X												3/15-8/15		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Oats		48.0	I	C	X	X												9/1 - 11/1		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Panicum, Texas		3.5	N	W	X	X												2/1 - 5/15	X	X	X	X	X	
Rye		42.0	I	C	X	X												9/1 - 11/1		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Spelt		30.0	I	C	X	X												9/1 - 11/1		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Triticale		40.0	I	C	X	X												9/1 - 11/1		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Wheat		50.0	I	C	X	X												9/1 - 11/1		X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.

Appendix 1c - Planting rates for drill or broadcast seeding and sprigging in Texas, Zone 2. MLRA's 83A and 83B

Name	Variety	Seeding rate lb. PLS per acre 3/ 4/	Native (N) or Introduced (I)	Season of growth	Adaptation by Major Land Resource Areas										Seeding Guidance Maximum Seeding Dates 5/	Adapted Plants by Soil Groups 6/					
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ANNUAL FORBS, LEGUMES 1/, 2/																					Comments
Barrel medic	Jemalong, Parabinga	6.0	I	C	X										9/1 - 11/1		X	X	X	X	
Black medic		3.0	I	C	X										9/1 - 11/1		X	X	X	X	CS
Bur medic: grain	Armadillo	3.0	I	C	X										9/1 - 11/1		X	X	X	X	
Button medic		10.0	I	C	X										9/1 - 11/1			X	X	X	CS
Cowpeas		30.0	I	W	X	X									3/15 - 8/15	X	X	X	X	X	CS
Guar		12.0	I	W	X	X									3/15 - 8/15		X	X	X		CS Cover depth is 1/2 to 1.0 inches.
Lablab		10.0	I	W	X	X									3/15 - 8/15	X	X	X	X	X	CS Cover depth is 1/2 to 1.0 inches.
Partridge pea		13.4	N	W	X	X									2/1 - 5/15	X	X	X			CS
Purplebean	Siratro, DQ Pea	27.0	I	W	X	X									3/15 - 8/15	X	X	X	X	X	CS
Sesame		5.3	I	W	X	X									3/15 - 8/15		X	X	X	X	CS
Sunflower		5.0	N	W	X	X									3/15 - 8/15	X	X	X	X	X	CS Seed 8/15-11/15 if seed has not been cold treated.
Sunflower	Perodovic	15.0	I	W	X	X									3/15 - 8/15	X	X	X	X	X	CS

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ANNUAL FORBS, LEGUMES 1/, 2/ (Continued)																			Comments				
Sweetclover: White	Hubam	3.4	I	C	X	X									9/1 - 11/1	X	X	X	X	X	CS		
Sweetclover: Yellow	Madrid	3.4	I	C	X	X									9/1 - 11/1	X	X	X	X	X	CS, biennial		
Vetch: hairy		15.0	I	C	X	X									9/1 - 11/1		X	X	X	X	CS		
Winterpeas: austrian		35.0	I	C	X										9/1 - 11/1		X	X	X	X	CS		

FOOTNOTES

1/ Species are listed by common name and where applicable by released cultivar or variety.

2/ Locally harvested seed may be used when seeding species of unknown or common variety. Locally harvested seed should have its geographic origin within 200 miles north, 300 miles south, 100 miles east and 200 miles west of the site where it will be planted.

3/ Seeding rates are listed as PLS (Pure Live Seed) unless otherwise indicated in the comments column as commercial seed (CS). To compute PLS from seed analysis information: %PLS = [% germination + %hard (dormant) seed] X % purity. Seeding rate in PLS pounds divided by %PLS will provide the bulk seeding rate needed to get the correct amount of Pure Live Seed.

4/ Drill planting is defined as rows spaced less than 20 inches apart. Row plantings will be 1/3 of drill rates unless otherwise noted. Seeding rates of perennial species may be increased up to two times the rate listed if warranted by specific site conditions.

5/ The optimum planting depth for all species is 1/8" - 1/4" unless otherwise noted.

6/ Soil groups are based on the following textures: **Coarse** - coarse sand, sand, fine sand, very fine sand, loamy coarse sand, loamy sand, loamy fine sand and loamy very fine sand; **Moderately Coarse** - sandy loam, coarse sandy loam and fine sandy loam; **Medium** - very fine sandy loam, loam, silt loam and silt; **Moderately Fine** - clay loam, sandy clay loam and silty clay loam; **Fine** - sandy clay, silty clay and clay.

7/ Conversion Factors: 3.5 bushels of tops = 1 bale; 7 bushels of sprigs = 1 bale; 1.25 cubic feet = 1 bushel; 15 pounds = 1 bushel.

8/ The TZ (tetrazolium salt) test can be used for the germination factor in figuring PLS if the dealer furnishes the seed tag or other proof that the test was performed by a reputable seed lab.

9/ May also be seeded 8/15 - 9/30 providing soil moisture conditions at planting are favorable.